

MINIMUM PRESSURE VALVE



Series **MPV**

Air Oil separation FAI FILTRI

DESCRIPTION

FAI FILTRI minimum pressure valves (**MPV** series) are suitable for direct assembly downstream the air/oil separator. It works in two different ways: when the compressor is started these valves allow to maintain the minimum pressure inside the oil tank allowing screw lubrication even at start-up null pressures. When in stand-by (or when turned off) the valve is closed in

order to prevent the pressure inside the oil tank from going out and therefore maintaining the initial conditions hereby.

These valves come in 5 different size ranges with flow rates from 1 to 40 m³/min.

TECHNICAL DATA

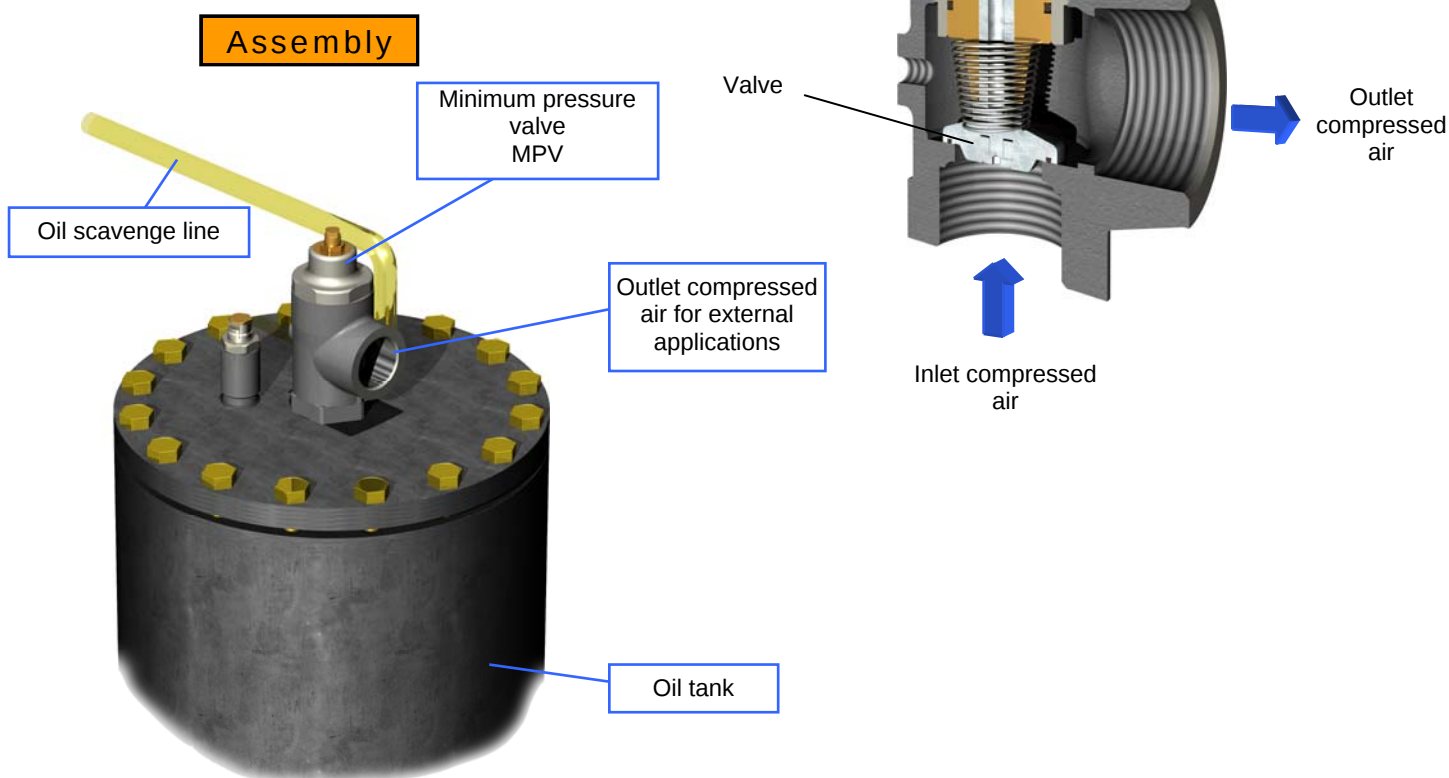
MATERIALS

- Valve body : aluminium casting with anodic oxidation treatment
- Seals: Viton
- Internal components with chemical corrosion-proof and self-lubricating treatments
- Springs: harmonic stainless steel

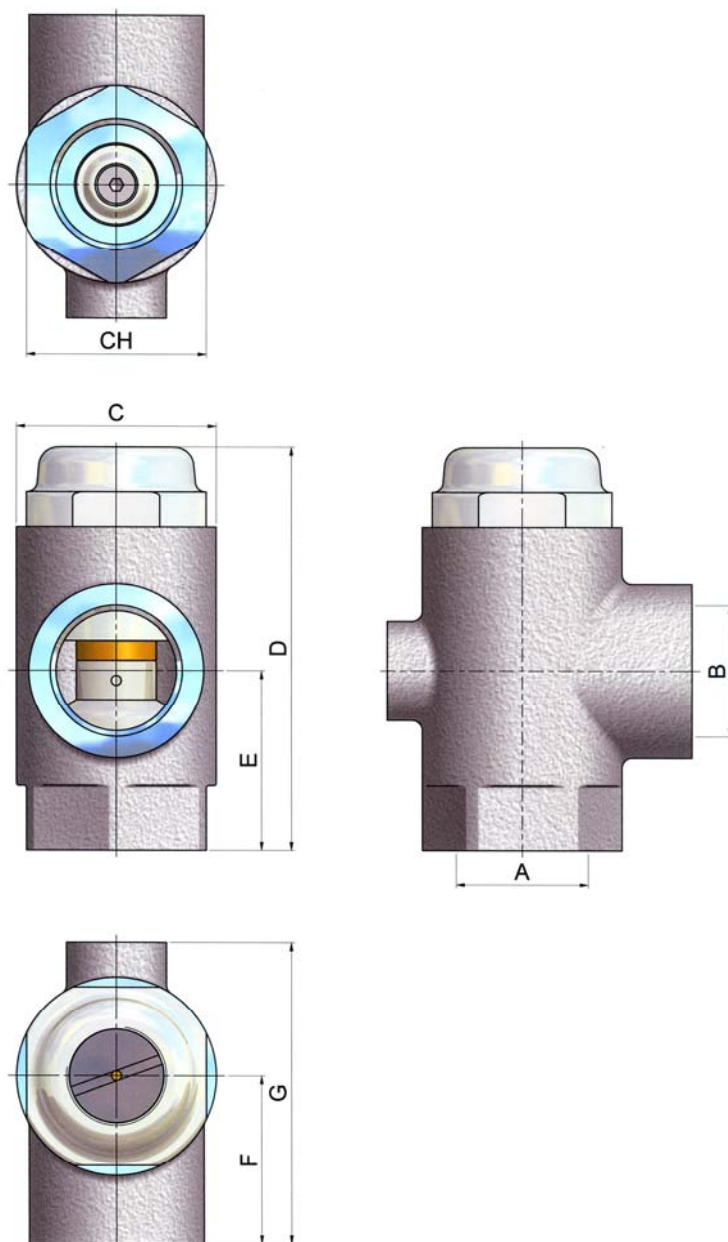
OPERATING PRINCIPLES

The minimum pressure valve starts opening when inlet pressure goes over the spring calibration value (4.5 bar) and opens completely when this pressure reaches 1.5-2 bar over the calibration value of 4.5 bar.

It starts closing when inlet pressure goes under 1-1.5 bar over the calibration value and closes completely when pressure reaches 0.5 bar under the calibration value.

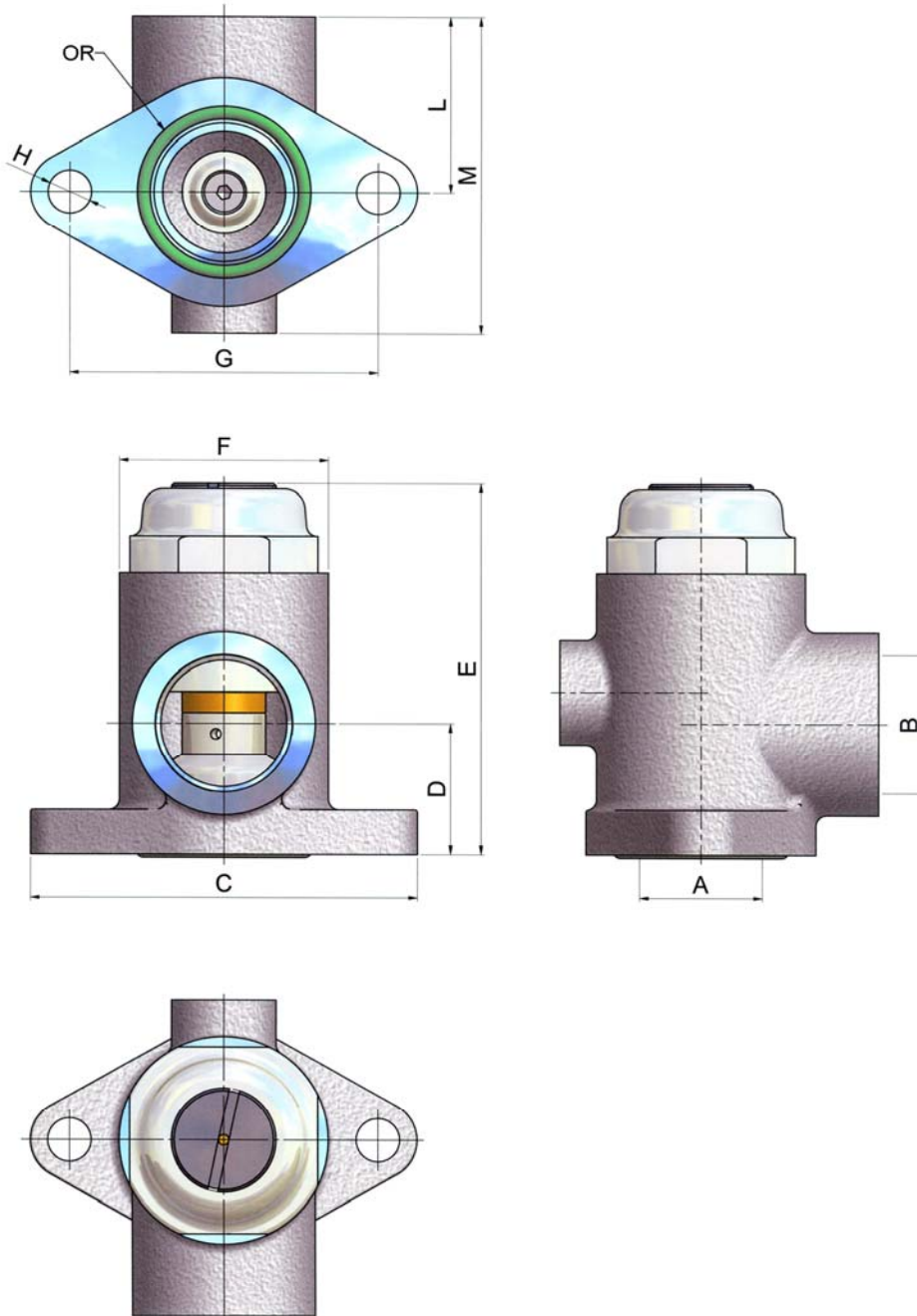


Minimum pressure valve threaded connection



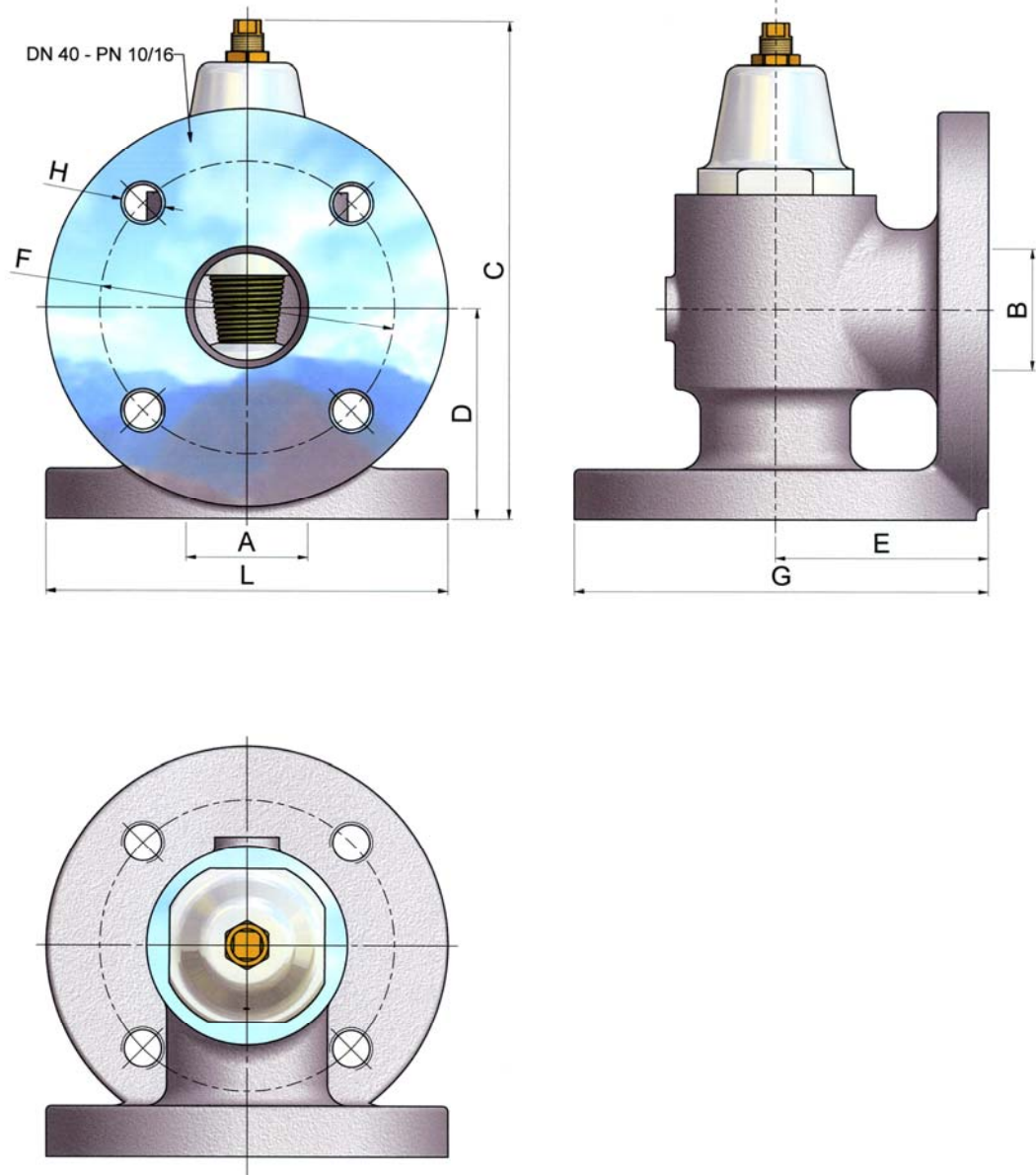
Type	Flow rate <i>m³/min</i>	A	B	C	D	E	F	G	CH	Weight (kg)
MPV-010-G	1	1/2" GAS	1/2" GAS	40	87	36	34	61	36	0.36
MPV-015-G	1.5	3/4" GAS	3/4" GAS							
MPV-035-G	3.5	1" GAS	1" GAS	44.5	87	42	39	68	45	0.44
MPV-060-G	6	1 1/4" GAS	1 1/4" GAS	60	141	51	47	82	55	1.1
MPV-140-G	12	1 1/2" GAS	1 1/2" GAS	70	162.5	55.5	58.5	99.5	65	2.8
MPV-250-G	25	2" GAS	2" GAS	95	178	71	71.5	127.5	75	4.4
MPV-400-G	40	2 1/2" GAS	2 1/2" GAS	130	212	98	102	173	95	5.85

Flanged minimum pressure valve



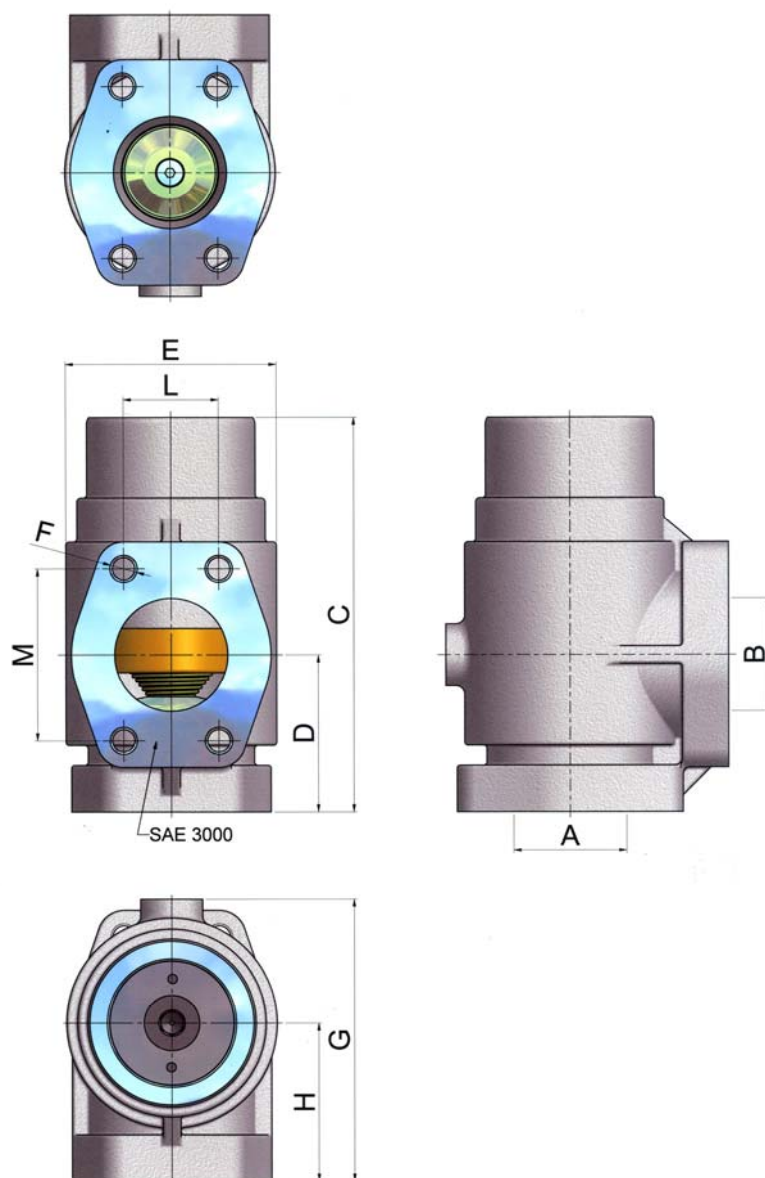
Type	Flow rate <i>m³/min</i>	A	B	C	D	E	F	G	H	L	M	Weight (Kg)
MPV 010-F	1	Ø23.5	1/2" GAS	74	25	76	40	59	2 fori Ø8.3	34	61	0.37
MPV-015-F	1.5	Ø23.5	3/4" GAS									0.36
MPV-035-F	3.5	Ø37	1" GAS	87.5	30	75	44.5	67	2 fori Ø10.5	39	68	0.45
MPV-060-F	6	Ø37	1 1/4" GAS	98.5	40	130	60	78		47	82	1

Minimum pressure valve DN flanged



Type	DN PN16	Flow rate <i>m³/min</i>	A	B	C	D	E	F	G	H	L	Weight (Kg)
MPV 140-F	40	14	Ø45.5	Ø45.5	175	79.5	79.5	Ø110	154.5	4 fori M16	Ø150	3.2
MPV-250-F	50	25	Ø58	Ø58	200	93	93	Ø125	175.5	4 fori M16	Ø165	5.4
MPV-400-F	65	40	Ø77	Ø77	219	104	103	Ø145	195.5	4 fori M16	Ø185	8.2

Minimum pressure valve SAE 3000 flanged



Type	Flow rate <i>m³/min</i>	A	B	C	D	E	F	G	H	L	M	Weight (kg)
MPV-140-S	14	Ø38	Ø38	172	64.5	Ø78	4 fori M12	112	65.5	35.7	69.8	2.1
MPV-250-S	25	Ø51	Ø51	178	71	Ø95	4 fori M12	127.5	71.5	42.9	77.8	3.3
MPV-400-S	40	Ø63	Ø63	212	99	Ø130	4 fori M12	167	96	50.8	88.9	6.1

Notes

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